PORTABLE AUDIO SYSTEM

USER MANUAL

150W Portable PA System

MODEL PPA 100-MP^3

Stellar Labs
Division of MCM Electronics
650 Congress Park Drive
Centerville, Ohio 45459
www.mcmelectronics.com

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Safety Information

The lightning bolt within a triangle is intended to alert the user to the presence of un insulated dangerous voltage levels within the product's enclosure.

This voltage may be of sufficient magnitude to constitute an electric shock risk.

To reduce the risk of electric shock, do not remove cover of this device. There are no user serviceable parts inside. Refer servicing only to qualified service personnel.

The exclamation point within a triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Precautions

- Read and retain these instructions
- Follow all instructions and heed warnings
- Do not use this device near water
- If the surface becomes dirty, clean only with dry cloth, do not use solvents or thinners
- Install in accordance with the manufacturer's instructions
- Do not block ventilation openings
- Do not install near heat sources such as radiators, heat registers, stoves, or other devices that produce heat
- Do not defeat the safety purpose of the grounded plug. This plug has two blades and a third ground prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- Protect the power cord from being stressed at the plugs, convenience receptacles, and where they exit the amplifier
- Only use accessories specified by the manufacturer
- Unplug the device during lightning storms or when unused for an extended time
- Refer all servicing to qualified personnel
- This device must not be exposed to water in any way. No object filled with liquids should be placed on apparatus

Congratulations!

You have just purchased a compact powerful PA system designed to provide superior performance with a wide assortment of features and natural sounding echo effects. It is perfect for presentations, small music venues and lectures in schools, houses of worship, meeting and civic halls. Very rugged construction is designed to provide years of trouble free service. The unit consists of a main mixer/amplifier module, and two speakers. This entire unit folds together for easy transport and storage.

System Features

General

- Rugged textured vinyl coated ½" wood construction
- Recessed transport handle and casters
- Each component has rugged feet for floor our tabletop use
- Each component has a recessed 1-3/8" pole mount for use with conventional speaker stands

Mixer/Amplifier Module

- Four microphone inputs, each featuring:
    - Balanced 1/4" TRS and XLR connections
    - Pan and gain controls
    - Effects send control
    - Three band equalizer
- Powerful fan cooled 75W RMS x 2CH stereo amplifier
- Effects send and return loops
- Line level "TAPE" input
- Fixed line level "REC" output
- Internal effects processor with DEPTH, DELAY and LEVEL control
- Internal digital media player that accepts SD/MMC cards and USB thumb drives
- 1-3/8" pole mount, compatible with most speaker stands

Speakers

- ½" MDF construction
- Wedged design for reduced cabinet resonance
- Dual front ports
- 8" poly cone woofer with foam surround
- Piezo horn tweeter
- 6dB/octave internal crossover
- Dual ¼" and Speakon compatible twist lock connectors
- 1-3/8" pole mount, compatible with most speaker stands

Specifications

(amplifier)

- Power output: 75W RMS x 2CH at 8Ω, 1%THD @1KHz
- THD (main amplifier): 0.05% @ 1KHz
- THD (mic inputs): 0.01% @ 1JHz
- Frequency response: 20Hz ~ 20KHz ±3dB
- Dimensions: 15½" (H) x 11" (W) x 8½" (D)
- Weight: 24 lbs

(speakers)

- Power capacity: 80W RMS
- Frequency response: 80Hz~20KHz
- Nominal impedance: 8Ω
- Dimensions (each) 15½" (H) x 11" (W) x 9½" (D)
- Weight (each speaker) 16 lbs.

(general)

Power requirements: 110VAC, 60Hz, 350W
Total system weight: 60 lbs
Dimensions (assembled): 15½" (H) x 27" (W) x 11" (D)

System Controls / Connections / Operation

Media Player

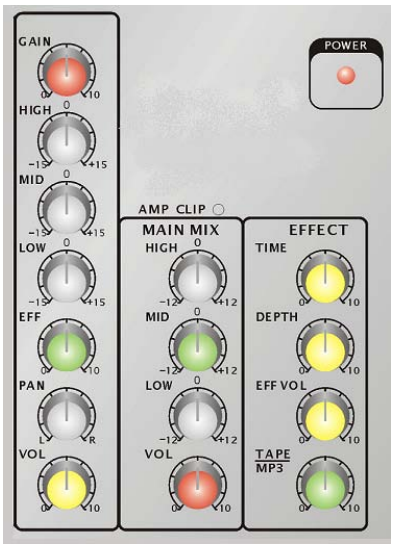
Media Player
The media player will accept MP3 and WMA audio files whether in the root directory or subfolders of standard flash memory. Any incompatible or non music files located in the drive will be ignored. Program material from this player is controlled by the TAPE/MP3 level adjustment on the MAIN MIX / EFFECT section of the control console.

- USB Input Port – accepts standard thumb drives.
- SD/MMC – accepts standard SD or MMC flash memory
- ► – toggles the player between PLAY and PAUSE modes
- REPEAT – toggles the player between REPEAT ONE, REPEAT ALL and REPEAT NONE modes
- EQ – toggles the player between several preprogrammed EQ settings, including:

Rock	Blues	Country
Pop	Hall	Opera
Classic	Bass	Normal (flat)
Jazz	Soft	

- ◄◄ – reverts back to the beginning of the track being played, then to previous tracks
- ►► – advances to the next track in the sequence. If last track is reached, it will revert back to first track
- ON / OFF Turns output from the MEDIA PLAYER off, preventing sound to be added to the main mix

Control Console



The main mix console features controls for each of he four mic/line input channels. These channels are labeled CH1, CH2, CH3 and CH4 and correspond to similarly labeled connections on the lower section.

GAIN – adjusts the sensitivity of the input channel. This allows compensation for devices such as tape decks, CD players, microphones and instruments that may have differing output levels.
HIGH – provides high frequency compensation (treble) for that specific channel.
MID – provides mid frequency compensation (midrange) for that specific channel.
LOW – provides low frequency compensation (bass) for that specific channel.
EFF – controls amount of effect that the EFFECT section of the CONTROL CONSOLE has on this specific channel
PAN – adjusts the amount of balance this input channel has between two output channels. Center position privides equal signal to both left and right output channel
VOL – controls amount of level this channel relative to other input channels

MAIN MIX – this section provides overall output level adjustments for all combined input channels and media player. It acts as the master volume (VOL), bass (LOW), midrange (MID) and treble (HIGH) control.

EFFECT – provides echo/reverb effect to each of the input channels CH1 ~ CH4. **TIME** adjusts the delay between each reverberation, **DEPTH** adjusts the actual number of reverberations, **EFF VOL** adjusts the relative level of the effect, as compared to the normal level of the input signal. Note, t his section does not effect the audio from the media player.

AMP CLIP – this LED indicator will illuminate when the amplfieir reaches its maximum output. It is critical that this not light more than very intermittently, to prevent speaker damage

POWER – this LED indicator will illuminate when master power is switched ON.

Input/Output Connections

LINE – each line input corresponds to the mix channel on the main CONTROL CONSOLE. This TRS ¼" TRS input connection will accept either balanced or unbalanced signals from line level devices such as tape decks, CD and DVD players, computer sound cards, MP3 players, preamplifieed musical instruments, and similar devices.

MIC – each mic input corresponds to the mix channel on the main CONTROL CONSOLE. This XLR input connection accepts balanced mic level signals. Note that for each input, only the MIC or LINE connection should be used. NOT BOTH.

EFFECTS LOOP SEND – provides a line level mix output to an external effects processor.

EFFECTS LOOP RETURN – allows processed signal to be inserted into the mix from an external effects processor.

TAPE IN – allows playback from external audio recorder through the main mix. The relative level of this recorder is set by the TAPE/MP3 adjustment, under the EFECT section of the CONTROL CONSOLE.

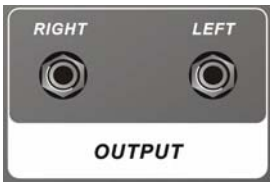
REC OUT – provides line level output to an external audio recorder. This output is affected by the settings under each channel of the mixing console, but not by the settings in the MAIN MIX section.

Rear Panel

POWER – turns main power ON or OFF. Depressing the "–" side of the switch turns the unit ON, the "O" turns the unit OFF.

The IEC type power accepts standard equipment power cords. Only grounded, three-conductor cords of at least 16AWG wire size should be used.

The fuse holder is located in the base of this input socket. In the event that fuse replacement is needed, replace only with the same type, 5mm x 20mm, 5A fast blow fuse,.



OUTPUT – connections accept standard 2-conductor ¼" speaker cables. This amplifier is capable of driving speaker loads as low as 4ohms per channel. Loads lower than 4ohm will cause permanent damage to the amplifier.

SPEAKER CONNECTION
Each speaker is equipped with two ¼" and a single twist lock (compatible with Speakon) input connection. These inputs are all tied together in parallel and are designed to facilitate easy connection of a second set of speakers, or a subwoofer.

It is important to note that if speakers are to be used in addition to the pair provided, they MUST be 8ohm or higher. Additionally, no more than one additional speaker (per channel) may be added. Connecting a second set of speakers lower than 8ohm, or having more than two pairs of speakers connected to the amplifier at one time may cause permanent damage to the amplifier.

To obtain optimum performance from this unit, it is important to select adequate speaker wire. For distances up to 15' per speaker, at least 18 AWG wire should be used. Distances greater, but less than 50' should use 16AWG. Distances beyond 50' should use 14AWG speaker cable.

MCM Custom Audio and Stellar Labs products are warranted, by MCM Electronics, against manufacturer defects for a period of one year from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. MCM Electronics, or any other worldwide divisions of Premier Farnell PLC, are not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items.

For questions or specific information regarding warranty replacement or repair, contact:

MCM Electronics
www.mcmelectronics.com
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